Package: OhdsiShinyAppBuilder (via r-universe)

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Type Package

Title Viewing Observational Health Data Sciences and Informatics Results via 'shiny' Modules

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Description Users can build a single 'shiny' app for exploring population characterization, population-level causal effect estimation, and patient-level prediction results generated via the R analyses packages in 'HADES' (see <https://ohdsi.github.io/Hades/>). Learn more about 'OhdsiShinyAppBuilder' at <https://ohdsi.github.io/OhdsiShinyAppBuilder/>.

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VignetteBuilder knitr

Depends R (>= 3.3.0)

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`addModuleConfig` *addModuleConfig*

Description

Create an R list with the config specification for one or more modules

Usage

```
addModuleConfig(config, moduleConfig)
```

Arguments

`config`	The current config to append the extra module to
`moduleConfig`	A module config to be added

Details

User specifies the settings to create a config for a module

Value

An R list with the module config settings

See Also

Other Config: `initializeModuleConfig()`, `loadConfig()`, `saveConfig()`

`createDefaultAboutConfig` *createDefaultAboutConfig*

Description

Create an R list with the about config specification

Usage

```
createDefaultAboutConfig()
```

Details

User specifies the settings to create a default config for an about module

Value

An R list with the module config settings

See Also

Other ModuleConfig: `createDefaultCharacterizationConfig()`, `createDefaultCohortDiagnosticsConfig()`, `createDefaultCohortGeneratorConfig()`, `createDefaultCohortMethodConfig()`, `createDefaultDatasourcesConfi`
`createDefaultEstimationConfig()`, `createDefaultEvidenceSynthesisConfig()`, `createDefaultHomeConfig()`, `createDefaultPhevaluatorConfig()`, `createDefaultPredictionConfig()`, `createDefaultReportConfig()`, `createDefaultSccsConfig()`, `createModuleConfig()`

createDefaultCharacterizationConfig
createDefaultCharacterizationConfig

Description

Create an R list with the characterization config specification

Usage

```
createDefaultCharacterizationConfig()
```

Details

User specifies the settings to create a default config for a characterization module

Value

An R list with the module config settings

See Also

Other ModuleConfig: createDefaultAboutConfig(), createDefaultCohortDiagnosticsConfig(), createDefaultCohortGeneratorConfig(), createDefaultCohortMethodConfig(), createDefaultDatasourcesConf createDefaultEstimationConfig(), createDefaultEvidenceSynthesisConfig(), createDefaultHomeConfig(), createDefaultPhevaluatorConfig(), createDefaultPredictionConfig(), createDefaultReportConfig(), createDefaultSccsConfig(), createModuleConfig()

createDefaultCohortDiagnosticsConfig
createDefaultCohortDiagnosticsConfig

Description

Create an R list with the characterization config specification

Usage

```
createDefaultCohortDiagnosticsConfig()
```

Details

User specifies the settings to create a default config for a characterization module

Value

An R list with the module config settings

See Also

Other ModuleConfig: createDefaultAboutConfig(), createDefaultCharacterizationConfig(), createDefaultCohortGeneratorConfig(), createDefaultCohortMethodConfig(), createDefaultDatasourcesConf createDefaultEstimationConfig(), createDefaultEvidenceSynthesisConfig(), createDefaultHomeConfig(), createDefaultPhevaluatorConfig(), createDefaultPredictionConfig(), createDefaultReportConfig(), createDefaultSccsConfig(), createModuleConfig()

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createDefaultCohortGeneratorConfig

createDefaultCohortGeneratorConfig

Description

Create an R list with the cohort generator config specification

Usage

```
createDefaultCohortGeneratorConfig()
```

Details

User specifies the settings to create a default config for a cohort generator module

Value

An R list with the module config settings

See Also

Other ModuleConfig: createDefaultAboutConfig(), createDefaultCharacterizationConfig(), createDefaultCohortDiagnosticsConfig(), createDefaultCohortMethodConfig(), createDefaultDatasourcesCo createDefaultEstimationConfig(), createDefaultEvidenceSynthesisConfig(), createDefaultHomeConfig(), createDefaultPhevaluatorConfig(), createDefaultPredictionConfig(), createDefaultReportConfig(), createDefaultSccsConfig(), createModuleConfig()

---

createDefaultCohortMethodConfig

createDefaultCohortMethodConfig

Description

Create an R list with the cohort method config specification (depreciated)

Usage

```
createDefaultCohortMethodConfig()
```

Details

User specifies the settings to create a default config for a cohort method module

Value

An R list with the module config settings

See Also

Other ModuleConfig: createDefaultAboutConfig(), createDefaultCharacterizationConfig(), createDefaultCohortDiagnosticsConfig(), createDefaultCohortGeneratorConfig(), createDefaultDatasources createDefaultEstimationConfig(), createDefaultEvidenceSynthesisConfig(), createDefaultHomeConfig(), createDefaultPhevaluatorConfig(), createDefaultPredictionConfig(), createDefaultReportConfig(), createDefaultSccsConfig(), createModuleConfig()

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createDefaultDatasourcesConfig
createDefaultDatasourcesConfig

Description

Create an R list with the datasources config specification

Usage

```
createDefaultDatasourcesConfig()
```

Details

User specifies the settings to create a default config for a datasources module

Value

An R list with the module config settings

See Also

Other ModuleConfig: createDefaultAboutConfig(), createDefaultCharacterizationConfig(), createDefaultCohortDiagnosticsConfig(), createDefaultCohortGeneratorConfig(), createDefaultCohortMetho createDefaultEstimationConfig(), createDefaultEvidenceSynthesisConfig(), createDefaultHomeConfig(), createDefaultPhevaluatorConfig(), createDefaultPredictionConfig(), createDefaultReportConfig(), createDefaultSccsConfig(), createModuleConfig()

createDefaultEstimationConfig *createDefaultEstimationConfig*

Description

Create an R list with the estimation config specification

Usage

```
createDefaultEstimationConfig()
```

Details

User specifies the settings to create a default config for an estimation module

Value

An R list with the module config settings

See Also

Other ModuleConfig: `createDefaultAboutConfig()`, `createDefaultCharacterizationConfig()`, `createDefaultCohortDiagnosticsConfig()`, `createDefaultCohortGeneratorConfig()`, `createDefaultCohortMetho`
`createDefaultDatasourcesConfig()`, `createDefaultEvidenceSynthesisConfig()`, `createDefaultHomeConfig()`, `createDefaultPhevaluatorConfig()`, `createDefaultPredictionConfig()`, `createDefaultReportConfig()`, `createDefaultSccsConfig()`, `createModuleConfig()`

createDefaultEvidenceSynthesisConfig *createDefaultEvidenceSynthesisConfig*

Description

Create an R list with the Evidence Synthesis config specification (depreciated)

Usage

```
createDefaultEvidenceSynthesisConfig()
```

Details

User specifies the settings to create a default config for a Evidence Synthesis module

Value

An R list with the module config settings

See Also

Other ModuleConfig: createDefaultAboutConfig(), createDefaultCharacterizationConfig(), createDefaultCohortDiagnosticsConfig(), createDefaultCohortGeneratorConfig(), createDefaultCohortMetho createDefaultDatasourcesConfig(), createDefaultEstimationConfig(), createDefaultHomeConfig(), createDefaultPhevaluatorConfig(), createDefaultPredictionConfig(), createDefaultReportConfig(), createDefaultSccsConfig(), createModuleConfig()

---

createDefaultHomeConfig

createDefaultHomeConfig

Description

Create an R list with the about config specification

Usage

```
createDefaultHomeConfig()
```

Details

User specifies the settings to create a default config for an about module

Value

An R list with the module config settings

See Also

Other ModuleConfig: createDefaultAboutConfig(), createDefaultCharacterizationConfig(), createDefaultCohortDiagnosticsConfig(), createDefaultCohortGeneratorConfig(), createDefaultCohortMetho createDefaultDatasourcesConfig(), createDefaultEstimationConfig(), createDefaultEvidenceSynthesisConf createDefaultPhevaluatorConfig(), createDefaultPredictionConfig(), createDefaultReportConfig(), createDefaultSccsConfig(), createModuleConfig()

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createDefaultPhevaluatorConfig

createDefaultPhevaluatorConfig

Description

Create an R list with the phevaluator config specification

Usage

```
createDefaultPhevaluatorConfig()
```

Details

User specifies the settings to create a default config for a phevaluator module

Value

An R list with the module config settings

See Also

Other ModuleConfig: createDefaultAboutConfig(), createDefaultCharacterizationConfig(), createDefaultCohortDiagnosticsConfig(), createDefaultCohortGeneratorConfig(), createDefaultCohortMetho createDefaultDatasourcesConfig(), createDefaultEstimationConfig(), createDefaultEvidenceSynthesisConf createDefaultHomeConfig(), createDefaultPredictionConfig(), createDefaultReportConfig(), createDefaultSccsConfig(), createModuleConfig()

---

createDefaultPredictionConfig
createDefaultPredictionConfig

Description

Create an R list with the prediction config specification

Usage

```
createDefaultPredictionConfig()
```

Details

User specifies the settings to create a default config for a prediction module

Value

An R list with the module config settings

See Also

Other ModuleConfig: createDefaultAboutConfig(), createDefaultCharacterizationConfig(), createDefaultCohortDiagnosticsConfig(), createDefaultCohortGeneratorConfig(), createDefaultCohortMetho createDefaultDatasourcesConfig(), createDefaultEstimationConfig(), createDefaultEvidenceSynthesisConf createDefaultHomeConfig(), createDefaultPhevaluatorConfig(), createDefaultReportConfig(), createDefaultSccsConfig(), createModuleConfig()

createDefaultReportConfig *createDefaultReportConfig*

Description

Create an R list with the report config specification

Usage

```
createDefaultReportConfig()
```

Details

User specifies the settings to create a default config for a report module

Value

An R list with the module config settings

See Also

Other ModuleConfig: createDefaultAboutConfig(), createDefaultCharacterizationConfig(), createDefaultCohortDiagnosticsConfig(), createDefaultCohortGeneratorConfig(), createDefaultCohortMetho createDefaultDatasourcesConfig(), createDefaultEstimationConfig(), createDefaultEvidenceSynthesisConfi createDefaultHomeConfig(), createDefaultPhevaluatorConfig(), createDefaultPredictionConfig(), createDefaultSccsConfig(), createModuleConfig()

createDefaultResultDatabaseSettings *createDefaultResultDatabaseSettings*

Description

Create an R list with the default table prefixes and tables

Usage

```
createDefaultResultDatabaseSettings(
  schema = "main",
  vocabularyDatabaseSchema = schema,
  cgTablePrefix = "cg_",
  cgTable = "cohort_definition",
  databaseTable = "DATABASE_META_DATA",
  databaseTablePrefix = "",
  cdTablePrefix = "cd_",
```

```
  cTablePrefix = "c_",
  incidenceTablePrefix = "ci_",
  plpTablePrefix = "plp_",
  cmTablePrefix = "cm_",
  sccsTablePrefix = "sccs_",
  esTablePrefix = "es_",
  pvTablePrefix = "pv_"
)
```

Arguments

schema	The schema containing the OHDSI study results
vocabularyDatabaseSchema	The schema containing the vocabulary database
cgTablePrefix	The table prefix for cohort generator tables
cgTable	The table with the cohort definitions in cohort generator
databaseTable	The table with the database details
databaseTablePrefix	The prefix for the databaseTable
cdTablePrefix	The table prefix for the cohort diagnostic results
cTablePrefix	The table prefix for the characterization results
incidenceTablePrefix	The table prefix for the incidence results
plpTablePrefix	The table prefix for the prediction results
cmTablePrefix	The table prefix for the cohort method results
sccsTablePrefix	The table prefix for the self controlled case series results
esTablePrefix	The table prefix for the evidence synthesis method results
pvTablePrefix	The table prefix for the phevaluator results

Details

User specifies the schema name and can override default table prefixes and table names

Value

An R list with the module config settings

createDefaultSccsConfig *createDefaultSccsConfig*

Description

Create an R list with the SCCS config specification (depreciated)

Usage

```
createDefaultSccsConfig()
```

Details

User specifies the settings to create a default config for a SCCS module

Value

An R list with the module config settings

See Also

Other ModuleConfig: createDefaultAboutConfig(), createDefaultCharacterizationConfig(), createDefaultCohortDiagnosticsConfig(), createDefaultCohortGeneratorConfig(), createDefaultCohortMetho createDefaultDatasourcesConfig(), createDefaultEstimationConfig(), createDefaultEvidenceSynthesisConf createDefaultHomeConfig(), createDefaultPhevaluatorConfig(), createDefaultPredictionConfig(), createDefaultReportConfig(), createModuleConfig()

createModuleConfig *createModuleConfig*

Description

Create an R list with the config specification

Usage

```
createModuleConfig(
  moduleId = "about",
  tabName = "About",
  shinyModulePackage = "OhdsiShinyModules",
  shinyModulePackageVersion = "3.0.0",
  moduleUiFunction = "aboutViewer",
  moduleServerFunction = "aboutServer",
  moduleInfoBoxFile = "aboutHelperFile()",
  moduleIcon = "info",
```

```
  installSource = "CRAN",
  gitHubRepo = NULL
)
```

Arguments

moduleId	The shiny id for the tab containing the module UI
tabName	The name of the tab in the shiny app (this will be the side menu button text)
shinyModulePackage	The R package to find the server and UI functions
shinyModulePackageVersion	The minimum version of the shinyModulePackage
moduleUiFunction	The name of the UI function in the R package shinyModulePackage
moduleServerFunction	The name of the server function in the R package shinyModulePackage
moduleInfoBoxFile	The function in the R package shinyModulePackage that contains info text
moduleIcon	The icon to use for the side menu button
installSource	Either CRAN or github specifying where to install shinyModulePackage from
gitHubRepo	If installSource is github then this is the github repo containing the package e.g., 'ohdsi'

Details

User specifies the settings to create a config for a module

Value

An R list with the module config settings

See Also

Other ModuleConfig: createDefaultAboutConfig(), createDefaultCharacterizationConfig(), createDefaultCohortDiagnosticsConfig(), createDefaultCohortGeneratorConfig(), createDefaultCohortMetho createDefaultDatasourcesConfig(), createDefaultEstimationConfig(), createDefaultEvidenceSynthesisConf createDefaultHomeConfig(), createDefaultPhevaluatorConfig(), createDefaultPredictionConfig(), createDefaultReportConfig(), createDefaultSccsConfig()

createShinyApp *createShinyApp*

Description

Create a shiny app for a shiny server

Usage

```
createShinyApp(
  config,
  connection,
  resultDatabaseSettings = createDefaultResultDatabaseSettings(),
  connectionDetails = NULL,
  usePooledConnection = TRUE,
  studyDescription = NULL,
  title = "OHDSI Analysis Viewer",
  protocolLink = "http://ohdsi.org",
  themePackage = "OhdsiShinyAppBuilder",
  htmlHeader = "",
  reportSummaryDetails = NULL
)
```

Arguments

config	The json with the app config
connection	A connection to the results
resultDatabaseSettings	A list with the result schema and table prefixes
connectionDetails	A DatabaseConnector::connectionDetails connection to the results database
usePooledConnection	Use a pooled database connection or not - set to true for multi-user environments (default)
studyDescription	A human-readable character string describing the study/analysis
title	The title for the app. Defaults to: OHDSI Analysis Viewer
protocolLink	A link to a site containing the study protocol
themePackage	A package containing custom theme elements
htmlHeader	Additional HTML to add to the shiny app header
reportSummaryDetails	NULL or a data.frame with the columns reportName and reportLocation

Details

User specifies the json config and connection

Value

Shiny app instance

See Also

Other Shiny: `viewShiny()`

`initializeModuleConfig` *initializeModuleConfig*

Description

Creates an empty config

Usage

```
initializeModuleConfig()
```

Details

An empty config that can be used to add shiny module configs to

Value

An empty list

See Also

Other Config: `addModuleConfig()`, `loadConfig()`, `saveConfig()`

`loadConfig` *loadConfig*

Description

Load the config specification

Usage

```
loadConfig(configLocation)
```

Arguments

`configLocation`	The location of the config json file

Details

User specifies the config file and this function returns the R list with the config

Value

An R list with the config settings

See Also

Other Config: `addModuleConfig()`, `initializeModuleConfig()`, `saveConfig()`

`OhdsiShinyAppBuilder` *OhdsiShinyAppBuilder*

Description

A package for creating viewers for the OHDSI shiny apps

Author(s)

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- Nathan Hall
- Josh Ide
- Jamie Gibert

`saveConfig` *saveConfig*

Description

Save the R list with the config specification as a json

Usage

```
saveConfig(configList, configLocation)
```

Arguments

`configList`	An R list with the config settings
`configLocation`	The location to save the config json file

Details

User saves the R list with the config as a json file

Value

An R list with the config settings

See Also

Other Config: `addModuleConfig()`, `initializeModuleConfig()`, `loadConfig()`

`viewShiny` *viewShiny*

Description

Open the shiny app

Usage

```
viewShiny(
  config,
  connection,
  resultDatabaseSettings = createDefaultResultDatabaseSettings(),
  connectionDetails = NULL,
  usePooledConnection = TRUE,
  studyDescription = NULL,
  title = "OHDSI Analysis Viewer",
  protocolLink = "http://ohdsi.org",
  themePackage = "OhdsiShinyAppBuilder",
  htmlHeader = ""
)
```

Arguments

`config`	The json with the app config
`connection`	A connection to the results
`resultDatabaseSettings`	A list with the result schema and table prefixes
`connectionDetails`	A DatabaseConnector::connectionDetails connection to the results database
`usePooledConnection`	Use a pooled database connection or not - set to true for multi-user environments (default)
`studyDescription`	A human-readable character string describing the study/analysis

`title`	The title for the app. Defaults to: OHDSI Analysis Viewer
`protocolLink`	A link to a site containing the study protocol
`themePackage`	A package containing custom theme elements
`htmlHeader`	Additional HTML to add to the shiny app header

Details

User specifies the json config and connection

Value

The shiny app will open

See Also

Other Shiny: `createShinyApp()`

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